

ABSTRACT OF THE INVENTION

The invention provides enhanced LM609 grafted antibodies exhibiting selective binding affinity to  $\alpha_v\beta_3$ , or a functional fragment thereof. The invention also  
5 provides nucleic acid molecules encoding the enhanced LM609 grafted antibodies. Additionally provided are methods of inhibiting a function of  $\alpha_v\beta_3$  by contacting  $\alpha_v\beta_3$  with an enhanced LM609 grafted antibody.

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